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TITLE: COMBINATION OF MONOCLONAL ANTIBODY AGAINST EPIDERMAL GROWTH FACTOR RECEPTOR, ITS COMPLEX AND METHOD FOR TRANSDUCING THE SAME INTO CELL

PUBN-DATE: August 15, 1995

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ABSTRACT:

PURPOSE: To obtain a complex of a new monoclonal antibody useful for transducing, etc., a gene into a cell by combining a monoclonal antibody against an epidermal growth factor receptor through a spacer or without the spacer with the gene.

CONSTITUTION: This combination is obtained by dissolving a monoclonal antibody against an epidermal growth factor receptor in a phosphoric acid buffer solution, adding a solution of N-succinimidyl-3-(2-pyridyldithio)propionate in ethanol thereto, reacting both at 37°C for 30min, then carrying out the gel filtration, providing a dithiopyridyl-antibody, adding polylysine, etc., to the resultant antibody and affording a combination of the monoclonal antibody with the polylysine which is a spacer. Furthermore, this complex is prepared by reacting the resultant modified monoclonal antibody with a gene such as a cancer suppressing gene in a buffer solution at ambient temperature for 30min. The resultant complex is a new complex of a monoclonal antibody against an epidermal growth factor receptor used for transducing a gene into a cell and useful as an anticancer agent, etc., capable of transducing the gene, etc., unfavorable to a cancer cell and killing the cancer cell.

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